

From
BEG/ENA

Our Reference
Andrew Pautsch

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+1 248 697 7904

Farmington Hills
2 Sept 2020

Requirements specification

Topic **RPS-F Installation Guideline**

1 Mechanical Considerations

1.1 Fastening

- 1.1.1 M4x0.7 or #8-32 Fasteners recommended
- 1.1.2 Fastener torque shall not exceed 10.8 in*lb (1.2 NM)
- 1.1.3 Insertion force shall not exceed 200N

1.2 Vibration

- 1.2.1 Vibration input shall not exceed 200 m/s² at 5 to 2,000 Hz

1.3 Tightness

- 1.3.1 Limits of IP58 standard shall be considered

1.3.1.1 Ingress Protection Dust Class 5: Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment

1.3.1.2 Ingress Protection Water Class 8: The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects. The test depth and duration is expected to be greater than the requirements for IPx7, and

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RPS-x Installation Guideline

other environmental effects may be added, such as temperature cycling before immersion.

2 Electrical Considerations

2.1.1 Local magnetic field strength shall not exceed 0.5 mT (static or oscillating)

2.1.2 Minimum distance of 50mm to any wire carrying more than 20A

2.1.3 Minimum distance of 200mm to ignition coil wiring

3 Thermal Considerations

3.1.1 Sensor temperature shall not exceed the range -40C to 150C during operation

4 Handling / Storage Consideration

4.1.1 Sensor shall not be damaged by drop from 1m height

5 Legal

5.1.1 REACH Statement

According to the REACH regulations, any supplier of an article containing a substance of very high concern (SVHC) in a concentration above 0.1 % (w/w) has the duty to provide the recipient of the article with sufficient information to allow safe use of the article. Our product contains: No SVHC over the allowable limit

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5.1.2 EC/EU Declaration of Conformity

EC/EU Declaration of Conformity

18 August 2020

The manufacturer,

Bosch Engineering GmbH
 Robert-Bosch-Allee 1
 74232 Abstatt / Deutschland

Hereby declares that the products named below

Name: RPS-F, RPS-N
 Type: Rotary position sensor, F02U.V0U.270-xx, F02U.V0U.400-xx
 From the date of manufacture: 7/28/2020

Comply with the provisions of the EU directive mentioned in the following.

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- Radio Equipment Directive 2014/53/EU
- ATEX Directive 2014/34/EU
- Pressure Equipment Directive 2014/68/EU
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Applied alternative standards and specifications:

Standard	Name	Edition
UNECE10	Electromagnetic Compatibility	Rev6:2019-11-20

Further explanations:

The assembling, installation and safety instructions according to the manual have to be followed.

Abstatt, den 8/18/2020 i.V. Wirtz i.V. Mauel
 Ort / Place Datum / Date BEG/MSD-CA Peter Wirtz BEG/MSD-NE Ingo Mauel

Änderungen im Inhalt der EG-Konformitätserklärung sind vorbehalten. Derzeit gültige Ausgabe auf Anfrage.

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 The content of the EC declaration of conformity is subject to modifications. Currently valid edition upon request.